



GREENSOLV inc.

TECHNICAL BULLETIN

G-Strip 130

HIGH PERFORMANCE BIODEGRADABLE PAINT STRIPPER IN LIQUID FOR SOAKING TANK APPLICATIONS

1) PRODUCT DESCRIPTION

G-STRIP 130 is an extremely effective catalyzed paint remover which works on a wider variety of industrial coatings. The stripping time is usually less than 1 hour for most catalyzed and powder coatings when the stripping solution is kept at a temperature of 60°C (140°F).

Fully biodegradable and with a very low toxicity, G-Strip 130 is designed to replace highly toxic and ozone depleting chlorinated paint strippers.

Typical applications:

- Industrial soaking tank for ferrous metals;

Typical coatings:

- Powder coatings (polyester & polyurethane);
- E/Coat;
- Catalyzed paints (epoxies & polyurethanes);
- Non-catalyzed paints (enamels, urethanes, alkyds);



2) BENEFITS

While biodegradable and safe for the end user, **G-STRIP 130** will allow you to strip the toughest coating systems within a very short period of time.

Its main benefits are:

- Extremely effective;
- Fully biodegradable, No HAP (*Hazardous Air Pollutant, U.S. EPA*);
- Non corrosive on ferrous metals and galvanized;
- Low rate of evaporation;
- Non flammable;

3) PHYSICAL PROPERTIES

| | |
|---|-------------------------|
| Physical appearance..... | yellow to orange liquid |
| Odor..... | Pleasant |
| Biodegradability | 100% |
| Flash point (close cup)..... | >93.3°C (200°F) |
| Base or acid | Acid |
| Specific Gravity (Water = 1)..... | 1.00 – 1.05 |
| pH (1 % in water) | 3.5 – 4.5 |
| Solubility in water | Partially soluble |
| Chlorinated hydrocarbon, phenol, chromate, peroxide | None |

4) PROCEDURE

Before immersion:

- Clean any excessive grim from the surface to be stripped.

Immersion:

- Completely submerge the parts to be stripped in a solution of **G-STRIP 130** pure at a temperature varying from 20 to 80°C (68 to 176°F); the higher the temperature, the lower the stripping time will be;
- Agitation of the solution during the stripping process will allow a faster reaction;
- Wait until the parts are stripped completely before taking them out of the solution;

Insulating Blanket:

- Use **G-ISOTHERM** – is a light synthetic oil – to cover the solution. This substantially reduces loss of the stripping material through evaporation and contributes to lower heating costs. A good insulating blanket should have a minimum thickness of an inch in order to be effective.

Efficiency:

- Two variables will greatly influence stripping efficiency: agitation and temperature. A good agitation can reduce the stripping time by half. On the other hand, increasing the temperature by 10°C (18°F) will also reduce the stripping time by 20 to 50%.

Filtration:

- In order to keep the solution clean for maximum stripping efficiency, it is recommended to filter the solution. A two steps filtration is optimum; the first stage filter-bag should be approximately 20 - 50µm and the second stage filter-bag can be as fine as 1 - 10µm.

Performance:

- The **GREENSOLV 273WL's** bath life will depend on its use and the number of parts stripped. As a rule of thumb, the solution will be effective for a period of 6 to 12 months.
- However, loss do to drag-out is the most significant factor contributing to product loss. **For a constant use, the consumption will vary from 1.0 to 2.0 kg (2.2 to 4.4 lbs) of GREENSOLV 273WL to strip 1.0kg (2.2 lbs) of paint.**



Aluminum automotive parts with polyester powder coating

Rinsing :

- Clean and rinse the parts with water if needed (preferably with warm water, add detergent if needed);
- For metals that oxidize rapidly in contact with moisture, dip the parts in a corrosion inhibitor or dry them rapidly.

Before painting:

- Make sure that the parts are dry and free of any contaminants before painting the surface;

Compatible materials:

- Soaking tank: stainless steel;
- Pump: Stainless steel and Teflon;
- Piping: Stainless steel;

Precautions:

- Avoid contact with rubber and plastic surfaces as they may degrade. In case of contact, dry as soon as possible;

Disposal of the stripping solution:

- Dispose of the stripping solution according to local regulation. The solution will be contaminated with paint components after several months of service and therefore, it should be disposed of as a hazardous material.

Before soaking any new substrate, proceed with a test sample;

5) PERSONAL PROTECTION

Engineering Controls :

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Safety equipment:

- Wear appropriate respirator device with VOC (Volatile Organic Compound) cartridges when ventilation is inadequate;
- Splash goggles, safety glasses or face shield;
- Rubber apron and/or long sleeves;
- Chemical resistant gloves;
- Boots;

6) STORAGE

Store **G-STRIP 130** at a controlled temperature between 0°C and 30°C. (32° F to 86° F). Store in a closed and dry container when not in use. The shelf life of the product has been determined to be three (3) years.

7) PACKAGING

G-STRIP 130 is available in :

- Pails (20 kg – 5 U.S. Gal.).
- Drums (204 kg – 55 U.S. Gal.).

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